C-3-g. Plateau, Crop, Pineapple Options Worksheet

1	STATE	Hawaii
2	FIELD OFFICE	Aiea
3	MLRA	158
4	COMMON RESOURCE AREA (CRA)	**Plateau**
5	RESOURCE INTERPRETATIONS	*see Section II FOTG for interpretations*
5.1	SOIL	
5.2	WATER	
5.3	AIR	
5.4	PLANT	
5.5	ANIMAL	
5.6	HUMAN	
6	HYDROLOGIC UNIT	20060000
7	SYSTEM TEMPLATE LABEL	**PLA12**
8	SYSTEM NAME	**Plateau, Crop, Pineapple**
9	PLANNING PHASE	Non-Benchmark
10	PLANNING LEVEL	RMS
11	NRCS LANDUSE	CROP
12	PLANNED CONS. PRACTICES	*enter code / name of practice*
	1. 324 Deep Tillage 2. 327 Conservation Cover 3. 328 Conservation Crop Rotation 4. 330 Contour Farming 5. 342 Critical Area Planting 6. 344 Residue Management, Seasonal 7. 350 Sediment Basin 8. 362 Diversion 9. 386 Field Border 10. 393 Filter Strip 11. 412 Grassed Waterway 12. 430 DD Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic 13. 441 Irrigation System, Microirrigation 14. 449 Irrigation Water Management 15. 484 Mulching 16. 560 Access Road 17. 580 Streambank & Shoreline Protection 18. 590 Nutrient Management 19. 595 Pest Management 20. 600 Terrace	
13	SYSTEM NARRATIVE	*describe how the practices work together as a system*
	The following recommended conservation practices will address the identified resource concerns. The proper implementation and maintenance of the measures will reduce erosion, improve soil quality/health, and protect ground and coastal water quality.	

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14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Soil / Erosion / Sheet & Rill Erosion	1. Sheet & rill erosion will be reduced to an acceptable soil loss tolerance level of 5 tons/acre/year or less.	1. Productive topsoil will not erode at an accelerated rate. Soil loss is reduced by _____ tons/acre/year.
	2. Soil / Erosion / Wind	2. NOT APPLICABLE	2. NOT APPLICABLE
	3. Soil / Erosion / Ephemeral Gully	3. Gullies and washouts will occur less frequently with installation of proposed treatment.	3. Clean-up cost after rainfall events will be reduced. Crop losses form washouts will be minimized.
	4. Soil / Erosion / Classic Gully	4. Formation of new gullies will be minimized. Existing gullies will be reshaped and treated.	4. Runoff water will flow at a safe and non-erosive rate. Crop loss from gullying is reduced.
	5. Soil / Erosion / Streambank Erosion	5. Streams will carry runoff water without eroding.	5. Farmable area is not reduced by sloughing of streambanks.
	6. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	6. Proposed management techniques will enhance soil tilth.	6. General soil health will improve condition for optimum crop growth.
	7. Soil / Condition / Soil Compaction	7. Plow pans will be broken up to improve water infiltration and allow better root penetration.	7. Growing conditions will improve and crop production will increase.
	8. Soil / Condition / Excess Chemicals in Soil	8. Risk of contamination from pesticides is evaluated.	8. Pesticides are properly applied to prevent degradation of water resources.
	9. Soil / Condition / Other (Chemistry)	9. Management practices will alter soil pH.	9. Favorable soil pH will increase crop yields.
	10. Water / Quantity / Runoff/Flooding	10. Water is managed to properly discharge runoff.	10. Cost of crop and property damage will be reduced.
	11. Water / Quantity / Irrigation Water Management	11. Designed irrigation system will efficiently distribute water to crops.	11. Water is conserved and crop production will increase.

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14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	12. Water / Quality / Pesticides in Groundwater	12. A pest management plan will assess the risk of further groundwater contamination.	12. Pesticides will be properly managed and used to minimize groundwater contamination.
	13. Water / Quality / Nutrients & Organics in Groundwater	13. Risk of contamination from nutrients is evaluated.	13. Fertilizers and soil amendments are properly applied to avoid leaching.
	14. Water / Quality / Nutrients & Organics in Surface Water	14. Potential for contamination from nutrients will be evaluated.	14. Nutrients are properly applied according to soil and plant tissue analysis.
	15. Water / Quality / Suspended Sediment & Turbidity in Surface Water	15. Amount of sediment in runoff water is minimized.	15. Effects from suspended sediment and turbidity to aquatic habitat, recreation waters, and other downstream waterbodies are minimized.

CRA	SYSTEM TEMPLATE LABEL		
15	* QUALITY CRITERIA DOCUMENTATION *list resource concerns then indicate yes/no (X)*		
	1. Sheet & Rill Erosion	☒ YES	☐ NO
	2. Wind Erosion	☐ YES	☐ NO
	3. Ephemeral Gully	☒ YES	☐ NO
	4. Classic Gully	☒ YES	☐ NO
	5. Streambank Erosion	☒ YES	☐ NO
	6. Tilth, Crusting, Infiltration, Organic Matter	☒ YES	☐ NO
	7. Soil Compaction	☒ YES	☐ NO
	8. Excess Chemicals in Soil	☒ YES	☐ NO
	9. Soil Condition - Other (Chemistry)	☒ YES	☐ NO
	10. Runoff/Flooding	☒ YES	☐ NO
	11. Irrigation Water Management	☒ YES	☐ NO
	12. Pesticides in Groundwater	☒ YES	☐ NO
	13. Nutrients & Organics in Groundwater	☒ YES	☐ NO
	14. Nutrients & Organics in Surface Water	☒ YES	☐ NO
	15. Suspended Sediment & Turbidity in Surface Water	☒ YES	☐ NO

* Provides an indication that the resource quality criteria will be met.